



Human_p53	X_no_p53	Squid_p53	CPB_p53	Trib_p53A	Trib_p53B	H_l1o_p53	Dros_p53	consensus
M	E	E	P	Q	S	D	P	S
V	E	P	P	L	S	Q	E	T
P	S	S	E	T	G	M	D	P
L	S	S	E	T	G	M	D	P
S	Q	G	T	S	-	-	-	-
C	P	B	-	-	-	-	-	-
T	r	i	b	-	-	-	-	-
T	r	i	b	-	-	-	-	-
H	l	i	o	-	-	-	-	-
D	r	o	s	-	-	-	-	-
c	o	n	s	e	n	s	u	s

Human_p53 D L M L S P D D I - - E Q W F T E D P G P D E A P R M P E A A P R V - - - - - A P A P A A P T P A A P A P A P S W
Xeno_p53 C R I D N L S - - - - - E F P D Y P L A A D M T - - - - - V L Q E G L M G N A V P T V T - - -
Squid_p53 Y R I A Q P D P Y G R S E S Y D L L N P I I N Q I P A P M P I A D T Q N N P L V N H C P Y E D M P V S S T P Y S P H D H
CPB_p53 F F K D E P T - - - - - L N D L N Y S N I L N G - - - - - S I V A N D D S K M V H L T F P G -
Trib_p53A G R I M H E N - - - - - N V H L V N D D G E - - - - - E E K Y S N E A N Y T E S T F P P -
Trib_p53B R Q Y K P P D - - - - - F S H T F H P I C S I F Q L E D F K F N I N Q S S Y L S A P T F P P -
Helio_p53 -
Dros_p53 E V S G S E L T - - - - - T E P M A F L Q G L N S G N - - - - - L M Q F S Q Q S V L R E M M L Q D I
cons nsus m p a p t v p

Human_p53
Xeno_p53
Squid_p53
CPB_p53
Trib_p53A
Trib_p53B
Helio_p53
Dros_p53
consensus

PL--SSSVPSQKTYQGSGYGFRLGLFH-SGTAKSVTCTYSTYSPALNKMFCQLAKTCPPVQLWVD
---SCAVPSTDYAGKYGLQLDFQQ-NGTAKSVTCTYSTYSPALNKLFCQLAKTCPLVLRVE
VQSPQPSVPSNICKYPGEYVFEMSAQPSKETKSTWTYS EKLDKLYVRMATTCTCPVRFKTA
--VQTSVPSNDEYDGPYEFVDPVHP--TVAKNSWVYSTTNKVMTMGSPFPVDFRVVS
--DQPTNLGTEYPPENFSVLISP--NEQKSPWEYSEKLNKLETGIVKFPVAFSVQ
--SEPLELCNTEYPPGPLNFEVFDVDP--NVLKNPWEYSPILNKITYDMKKHFPFNFVK
--
QIQANTLPKLENHNIGGYCFSMVLDE--PPKSLWMYSIPLNKITYRMNKA FNVDVQFK
q svpsq dy g y f l v k tw ys lnkmyv ma fpv f v

FIG. 1A



Human_p53 STPP-PGTRVRAMAIXKQSQHMTVVRRCPHHERCSDD-SDGLAPPQHILIRVEGNLR
Xeno_p53 SP-PP-RGSIIRATAVYKKSEHVAEIVKRCPPHHERSVEP--GEAAPPSSHIMRVEGNLQ
Squid_p53 RPPP-SGCQIRAMPITXMKPEHVQEVKRCPPHHERSVEP--GEAAPPSSHIMRVEGNLQ
CPB_p53 HRPP-NPLFIRSTPVYSAPQFAQECVYRCNLNHERFVSHKES-DGDLKEHTRPHIIRCANQYA
Trib_p53A NRPNLPLFIRSTPVYSAPQFAQECVYRCNLNHERFVSHKES-DGDLKEHTRPHIIRCANQYA
Trib_p53B KADPEERRLFVRVMPVFEEDRYVQELVHRCVCHHEQLTDP--NKNVSEMVVAQHIIIRCTNDNA
Helio_p53 YQKA-PHMFVRSVTFSEDETQAEKRVVERCVQHHEFSESSTSGIQTEIAKNVLSHSSREIGTQC
Dros_p53 SKMPIQPIINLRVFLCFNSND--VSAPVVRCQNLHLSVEPLT--ANNAKMRRESLERSENPNS
cons nsus pp lfvRatpvs hvqevv RClNH d s d i hircenna

Human_p53 VEYLDNRNT--FRHSVVVPYEP--PEVGSDDCTIHHYNYMCNSSCMG-GMNRRIILTI
X no_p53 AYYME DVNS--GRHSVCPYEG--PQVGTCTVLYNYMCNSSCMG-GMNRRIILTI
Squid_p53 AKYHE DKYS--GRQSVLPHEM--PQA GSEWVNLVYQFMCLGSCVG-GPNRRPIQLV
CPB_p53 AYLGDKSKN--ERLSVVPFPGI--PQTGTESVREIEFVCKNSCPSPGMNRRAVEII
Trib_p53A MYNGDKNTG--TRLNTPPLAH--PQVGEDVVKEFFQFVCKNSCPL-GMNRRIIDVV
Trib_p53B QYFGDKNAG--KRLS--MRTSSESCSHAYQFSCKNSCAT--GNRRRAIAT
H lio_p53 VYCGKVDK--ADSWYSVLVEF--MRTSSESCSHAYQFSCKNSCAT--GNRRRAIAT
Dros_p53 VYCGNAQKGKISERFSVVVPLNMSRSVTRSGLTRQTLAKKFCQNSCTG--RKESTSLV
cons nsus vYygdK r svvvp e pq gse t ynfmc nscmg gmnrrpi li

FIG. 1B



Human_p53 ITLEDSSGNLTGRNSFEVRVCACPGRDRRTTETEE-NLRKKG-----EPHHELPPGSTKRALP
Xeno_p53 ITLETPQGLTGRRCFEVRVCACPGRDRRTTETED-NYTKK-----RGLKPSG--KRELA
Squid_p53 FTLEK-DNQVLGRRAVEVRVCACPGRDRKADKASLVSK-----PPSPKNGFPQRSLV
CPB_p53 FTLEDNQGTLYGRKTLNVRVCSCPKRDKEKDKNTANT-----NLPHG-KKRKME
Trib_p53A FTLEDNKGEVFGRRLVGVVCSCPKRDKDKDK-----VPPRRKKRKL
Trib_p53B -----
Helio_p53 FTLEDAMGNTHGRQKVGAR-----
Dros_p53 FCLEKACGDIVGQHVTGVKTCVCPKRDRIQDERQLNSKKRKSVPAAEEDPSKVRRCTA
consensus ftled g llgr v vrvc cp rdr eek k p g kr l

Human_p53 NNTSSSP-QPKK---KPLDGEYFTTQTRGRERTTETEE-NLRKKG-----EPHHELPPGSTKRALP
Xeno_p53 HPPSSEPLPKKRLVDDDEEIFTTRTKGRSRYETEMIKKLNDALELQESTDQQ-----
Squid_p53 LTNDITKITPKK---RKIDDECFTLTKVRGRNXYETELCKTRDI MELAARPEAEERLLYKQE
CPB_p53 KPSKKPMQTQAE---NDTKETFLTPVGRHNEQNVLKYCHDL MAGETIERN-----
Trib_p53A NDERRVVPQGSS---DNKIFALNTHTPGKKNYLQALKMCQDMLANEILLKKQ-----
Trib_p53B -----
Helio_p53 -----
Dros_p53 IKTEDTESNDSKDCDDSAAEWNVSRTPDGDYRLATTCPNKEWLLQSIEGMIK-----
consensus k e t l i gr f m kl e l d l

Human_p53 -KEPGG---SRAHSSHLKSKKGQ-----STSRHKKLLMFKTEGPDSD-----
Xeno_p53 -KVTIK---CRKCRDEIKPKKG-----KKLLLVKDEQPDSE-----
Squid_p53 RQAPIGRITSLPSSSSNGSQDGSRSSTAFSTSDSSQVNSSQNTQM VNGQVPHFEETPVT
CPB_p53 ---IG---NGTEGPYKIALN-----KINTLIRSESSE-----
Trib_p53A ---EQG---GD-DSADKNCYN-----EITVLLNGTAAFD-----
Trib_p53B -----
Helio_p53 -----
Dros_p53 --EAAAEVLNPNQENLRRHAN-----KLISLKKRAYELP-----
consensus g k lmv d

FIG.-1C



Human_p53
X no_p53
Squid_p53
CPB_p53
Trib_p53A
Trib_p53B
Hlio_p53
Dros_p53
cons nsus

Human_p53
Xeno_p53
Squid_p53
CPB_p53
Trib_p53A
Trib_p53B
Hlio_p53
Dros_p53
consensus

FIG._1D